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PN - JP58132077 A 19830806
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 TI - PROCESS FOR STABILIZING SOIL
 IN - YOSHINARI EIJI; ISHIKAWA TAKANAO; YAMAGUCHI SHIGEO
 PA - SEKISUI CHEMICAL CO LTD
 IC - C09K17/00; E02D3/12
 CT - JP51055112 A[]; JP51055113 A[]; JP53105810 A[]

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TI - Stabilising soil - by injecting aq. mixt. of alkali metal silicate and aq. dispersion contg. cement, alkali metal aluminate and chelating agent
 PR - JP19820014038 19820130
 PN - JP58132077 A 19830806 DW 198337 005pp
 - JP3062749B B 19910926 DW 199143 000pp
 PA - (SEKI) SEKISUI CHEM IND CO LTD
 IC - C09K17/00; E02D3/12
 AB - J58132077 Soil is stabilised by injecting an aq. mixt. comprising (A) an aq. soln. of an alkali metal silicate salt and (B) an aq. dispersion contg. cement, an alkali metal aluminate salt and chelating agent
 - Method uses a mixt. having high storage stability and gelation time which is controllable over wide range and stabilises soil with high workability.
 - (A) is pref. a 5-50 vol.% soln. of Na silicate specified as No. 1, 2 or 3 by JIS K- 14083. The cement is Portland cement, blast furnace cement, silica cement, expansive cement, fly ash cement in a W/C ratio of 0.8-7. The aluminate salt is pref. Na-, K- or Li-aluminate in an amt. of 0.3-25 wt.% of the aq. mixt. calculated as Al₂O₃. The chelating agent is pref. oxalic, malonic, succinic, maleic or itaconic acid; lactic, glyceric, gluconic, malic, tartaric, citric or salicylic acid; Na- or K-salt thereof; ethylene diamine, diethylene triamine, N,N- diethylene diamine, ethylene diamine tetracetic acid; alpha,alpha'-dipyridyl; alanine, asparagine, glycine, glutaric acid or serine; nitroacetic acid; pyrophosphoric, tetrametaphosphoric, trimetaphosphoric or triphosphoric acid; or K- or Na-salts. (0/0)
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 IN - YOSHINARI EIJI; others: 02
 PA - SEKISUI KAGAKU KOGYO KK
 TI - PROCESS FOR STABILIZING SOIL
 AB - PURPOSE: To firmly stabilize soil with good processability, by mixing an aq. silicate soln. with a cement suspension having good stability and injecting the mixture into the soil followed by gelling.
 - CONSTITUTION: A cement suspension consisting of a cement of a water to cement ratio of about 0.8-7 such as portland cement, an alkali metal aluminate such as sodium aluminate, a chelating agent such as tartaric acid or sodium tartrate and water are used. Namely, an aq. soln. of an alkali metal silicate such as an aq. soln. contg. about 5-50 vol% sodium silicate is mixed with said cement suspension and the obtd. aq. mixture (grout) is injected into soil to stabilize it. Said chelating agent is used pref. in an amt. of about 0.03-1.5 wt% based on the grout